

PATENT COOPERATION TREATY

10/517936

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference lw8022pc	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/KR 02/02418	International filing date (day/month/year) 24 December 2002 (24.12.2002)	(Earliest) Priority Date (day/month/year) 14 June 2002 (14.06.2002)
Applicant SAMSUNG ELECTRONICS CO. LTD.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (See Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.: 1

☒ as suggested by the applicant.

☐ None of the figures.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Disclosed is an organic electroluminescent (EL) device for enhancing the luminous efficiency. A first electrode is formed on a substrate. A CVD insulating film (128) of low dielectric constant having an opening (130) exposing the first electrode is formed on the first electrode and the substrate. An organic EL layer (132) and a second electrode (134) are sequentially stacked on the opening. A wall surrounding a region of the organic EL layer is formed of the CVD insulating film (128) of low dielectric constant, the surface treatment of the pixel electrode (126) can be performed using O₂ plasma to thereby enhance luminance properties.

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CLASSIFICATION OF SUBJECT MATTER

IPC⁷: H05B 33/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: H05B 33/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0043932 A1 (KAWASHIMA) 18 April 2002 (18.04.02) <i>paragraphs 38, 48, 59-67; figs. 2, 4, 13-15.</i>	1,10
Y		2-3,11-12
Y	US 2002/0036462 A1 (HIRANO) 28 March 2002 (28.03.02) <i>paragraphs 19-22, 40-45; figs. 1,3,4.</i>	5-7
Y	US 2001/0049030 A1 (OKADA ET AL.) 6 December 2001 (06.12.01) <i>abstract; paragraph 44.</i>	2-3,5-7,11-12
A	EP 0888035 A1 (IDEMITSU KOSAN COMPANY LIMITED) 30 December 1998 (30.12.98) <i>abstract; claims; figs.</i>	1-13

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

„A“ document defining the general state of the art which is not considered to be of particular relevance

„E“ earlier application or patent but published on or after the international filing date

„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

„O“ document referring to an oral disclosure, use, exhibition or other means

„P“ document published prior to the international filing date but later than the priority date claimed

„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

„&“ document member of the same patent family

Date of the actual completion of the international search

20 November 2003 (20.11.2003)

Date of mailing of the international search report

21 January 2004 (21.01.2004)

Name and mailing address of the ISA/AT

Austrian Patent Office

Dresdner Straße 87, A-1200 Vienna

Facsimile No. 1/53424/535

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Telephone No. 1/53424/345

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/KR 02/02418

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
EP	A	888035		JP	B	3162407B2	2001-04-25
				US	A	6157127	2000-12-05
				EP	A	0888035	1998-12-30
				WO	A	9734447	1997-09-18
US	A	20010049 030		none			
US	A	20020036 462		none			
US	A	20020043 932		none			